



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010596  
CERTIFICATION DATE: December 4, 2013  
DATE RECERTIFICATION DUE: June 2, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

Melissa Kennedy

Program Manager, Calibration & Training

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 12th day of December, 2013, by Melissa Kennedy

  
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014  
TLN



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 12/9/2013**

*HMS*  
*NMJ*

<b>Instrument Serial Number:</b> 010596	<b>As of 09-Dec-13</b>
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Maintenance Date	Certification Date	Technician Initials	Remarks
04-Dec-13	04-Dec-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
17-Jun-13	17-Jun-13	HMS (18910)	CERTIFIED
08-Jan-13	08-Jan-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
17-Jul-12	17-Jul-12	HMS (18910)	CERTIFIED
30-Jan-12	30-Jan-12	DBH (21250)	CERTIFIED
24-Jan-12	24-Jan-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
02-Aug-11	02-Aug-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
24-Feb-11	24-Feb-11	DBH (21250)	REPLACE DRY GAS STANDARD, CERTIFIED
14-Sep-10	14-Sep-10	DBH (21250)	REPLACED DRY GAS STANDARD, CALIBRATED AND CERTIFIED.
31-Mar-10	31-Mar-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
15-Oct-09	15-Oct-09	DBH (21250)	CERTIFIED.
06-May-09	06-May-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
13-Nov-08	13-Nov-08	DBH (21250)	CALIBRATED AND CERTIFIED.
05-Nov-08	05-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

JMS  
NKK

## INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010596 Worksheet Start Date 12/4/2013

Location Bath County

Address 85 Courthouse Hill Rd., Warm Springs, VA 24484

DFS Technician Heather Stanton License No. 18910

☐ Laboratory ☒ On-Site

### Site Specifications

	Yes	No
<b>1 Secured Environment:</b> Location must not be accessible to the general public.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>2 Environment free from contaminants</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>3 Dedicated telephone line:</b> The phone line should be used solely by the instrument.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4 Adequate Ventilation:</b> Enough space must be provided for the instrument and the printer to allow for adequate ventilation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>5 Stable temperature controls:</b> The instrument should not be exposed to direct sources of temperature variation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>6 115VAC power source:</b> Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>7 Room Condition:</b> The site should be free of excessive moisture, heat and dust.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Old serial no.	New serial no.	Supplies
E-Seek		Mouthpieces
Keyboard		Certificates of Analysis
Printer		Operator Worksheet
UPS		Other:

Maintenance (if any)  
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010596

Certification Date 12/4/2013

Instrument Barometer (mm HG) 700

Reference Barometer (mm HG) 702

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.230	0.223	0.236	Sample 2	0.228
Precision		sample min	sample max	Sample 3	0.228
0		0.228	0.228		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.138	0.133	0.142	Sample 2	0.138
Precision		sample min	sample max	Sample 3	0.138
0		0.138	0.138		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.074	0.071	0.077	Sample 2	0.074
Precision		sample min	sample max	Sample 3	0.073
0.001		0.073	0.074		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.018	0.015	0.021	Sample 2	0.018
Precision		sample min	sample max	Sample 3	0.018
0		0.018	0.018		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG227501-15

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.092	0.089	0.095	Sample 2	0.092
Precision		sample min	sample max	Sample 3	0.092
0		0.092	0.092		

DFS Technician

*Heath W. Stark*

Date

12/9/13

Issuing Analyst

*Melissa Kennedy*

Date

12/10/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

TLN

DFS Document 250-F113

Revision 6

Page 2 of 2






COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>12/04/2013</b>
TEST EQUIPMENT NUMBER <b>010596</b>		

RESULTS: TIME SAMPLE TAKEN 09:11 EST  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
----------------------

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 04 Dec 2013 at 09:46

## Test Results

Instrument Serial Number 010596

Test # 000266 Subject Test

Test Location 1 Department of  
Test Date 04 Dec 2013

Test Location 2 Forensic Science  
Test Time 09:05  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial N

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 04 Dec 2013

End Time 09:12

Result Time 09:11

Result Date 04 Dec 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 09:05

Data Type BLK

Sample Value 0.000

Sample Time 09:06

Data Type CHK

Sample Value 0.092

Sample Time 09:06

Data Type BLK

Sample Value 0.000

Sample Time 09:07

Data Type SUBJ

Sample Value 0.000

Sample Time 09:08

Data Type BLK

Sample Value 0.000

Sample Time 09:09

Data Type SUBJ

Sample Value 0.000

Sample Time 09:11

Data Type BLK

Sample Value 0.000

Sample Time 09:11

Standard Type Dry Gas Std

Standard Value 0.092

Standard Lot Number AG219101-05

Standard Expiration Date 07/09/2014

Tank Pressure 1105

Barometric Pressure 700 mmHg

Blow Sample Number 1 Blow Duration 3.38 sec

Blow Volume 1774 cc End-of-Blow Time 09:08

Blow Sample Number 2 Blow Duration 3.46 sec

Blow Volume 1781 cc End-of-Blow Time 09:11

Tamper Evident Stamp 88c50d7a

Test Status Code 0

Test Status Success

HMS  
WJK

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 267  
Test Date: 12/04/2013      Test Time: 09:14 EST

Technician Initials: HMS

Dry Gas Target: 0.092

Lot Number: AG219101-05      Exp Date: 07/09/2014

Tank Pressure: 1095 psi      Barometric Pressure: 700 mmHg

Test	g/210L	Time
DIAG	Pass	09:14
BLK	0.000	09:15
CHK	0.092	09:15
BLK	0.000	09:17
CHK	0.092	09:17
BLK	0.000	09:18
CHK	0.092	09:19
BLK	0.000	09:20

**Success**

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

One point certification done prior to firmware/software upgrade due to certification warning on display.

HMS  
12/4/13

HMS  
MSK

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 268

Test Date: 12/04/2013      Test Time: 09:21 EST

Dry Gas Target: 0.092

Lot Number: AG219101-05      Exp Date: 07/09/2014

Tank Pressure: 1085 psi      Barometric Pressure: 700 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:22
CHK	0.092	09:23
BLK	0.000	09:24
CHK	0.092	09:25
BLK	0.000	09:26
CHK	0.092	09:27

Test Status: *Success*

Calibration CRC: E0011EB6



Handwritten initials/signature in the top right corner.

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 269

Test Date: 12/04/2013      Test Time: 09:30 EST

Dry Gas Target: 0.276

Lot Number: AG322702-01      Exp Date: 08/15/2015

Tank Pressure: 100 psi      Barometric Pressure: 700 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:31
CHK	0.275	09:32
BLK	0.000	09:33
CHK	0.275	09:34
BLK	0.000	09:36
CHK	0.275	09:36

Test Status: *Success*

Calibration CRC: E0011EB6

HMS  
MSK

**Intox EC/IR-II: Software Version**

*Department of Forensic Science*

Serial Number: 010596

System Date: 12/04/2013

System Time: 10:02 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

hms  
msk

**Intox EC/IR-II: Calibration**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 270

Test Date: 12/04/2013      Test Time: 10:05 EST

Dry Gas Target: 0.092

Lot Number: 0651210013-06      Exp Date: 04/01/2014

Tank Pressure: 571 psi      Barometric Pressure: 699 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:06
CAL	0.092	10:07

Test Status: *Success*

Calibration CRC: 2935AE90

HMS  
MSK

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 271  
Test Date: 12/04/2013      Test Time: 10:09 EST

Technician Initials: HMS

Dry Gas Target: 0.230

Lot Number: 2961225012-08      Exp Date: 11/01/2014

Tank Pressure: 227 psi      Barometric Pressure: 699 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:10
BLK	0.000	10:11
CHK	0.228	10:11
BLK	0.000	10:13
CHK	0.228	10:14
BLK	0.000	10:16
CHK	0.228	10:16
BLK	0.000	10:18

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS  
NBSK

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 272  
Test Date: 12/04/2013      Test Time: 10:20 EST

Technician Initials: HMS

Dry Gas Target: 0.138

Lot Number: 29512150I2-02      Exp Date: 11/01/2014

Tank Pressure: 683 psi      Barometric Pressure: 699 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:20
BLK	0.000	10:21
CHK	0.138	10:22
BLK	0.000	10:23
CHK	0.138	10:24
BLK	0.000	10:25
CHK	0.138	10:26
BLK	0.000	10:28

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

*HMS*  
*ASH*

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 273  
Test Date: 12/04/2013      Test Time: 10:29 EST

Technician Initials: *HMS*

Dry Gas Target: 0.074

Lot Number: 0771308012-04      Exp Date: 05/01/2015

Tank Pressure: 762 psi      Barometric Pressure: 699 mmHg  
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:30
BLK	0.000	10:31
CHK	0.073	10:31
BLK	0.000	10:33
CHK	0.074	10:33
BLK	0.000	10:35
CHK	0.073	10:35
BLK	0.000	10:37

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued



HMS  
MSK

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 274  
Test Date: 12/04/2013      Test Time: 10:38 EST

Technician Initials: HMS

Dry Gas Target: 0.018

Lot Number: 0771302011-04      Exp Date: 05/01/2015

Tank Pressure: 860 psi      Barometric Pressure: 699 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:38
BLK	0.000	10:39
CHK	0.018	10:40
BLK	0.000	10:41
CHK	0.018	10:42
BLK	0.000	10:43
CHK	0.018	10:44
BLK	0.000	10:45

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS  
PSS

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 275

Test Date: 12/04/2013      Test Time: 10:48 EST

Dry Gas Target: 0.276

Lot Number: AG322702-01      Exp Date: 08/15/2015

Tank Pressure: 95 psi      Barometric Pressure: 699 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:48
CHK	0.278	10:49
BLK	0.000	10:51
CHK	0.278	10:52
BLK	0.000	10:54
CHK	0.278	10:55

Test Status: *Success*

Calibration CRC: 2935AE90

AMS  
RSL

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010596      Test Number: 276

Test Date: 12/04/2013      Test Time: 10:59 EST

Dry Gas Target: 0.092

Lot Number: AG227501-15      Exp Date: 10/01/2014

Tank Pressure: 683 psi      Barometric Pressure: 699 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:00
CHK	0.092	11:00
BLK	0.000	11:02
CHK	0.092	11:03
BLK	0.000	11:04
CHK	0.092	11:05

Test Status: *Success*

Calibration CRC: 2935AE90



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

AMS  
RSH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>12/04/2013</b>
TEST EQUIPMENT NUMBER <b>010596</b>		

RESULTS: TIME SAMPLE TAKEN 11:13 EST  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 09 Dec 2013 at 08:13

hms  
msk

## Test Results

Instrument Serial Number 010596

### Test # 000277 Subject Test

Test Location 1 Department of  
Test Date 04 Dec 2013

Test Location 2 Forensic Science  
Test Time 11:07  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M  
License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 04 Dec 2013 End Time 11:14

Result Time 11:13

Result Date 04 Dec 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:07

Data Type BLK

Sample Value 0.000

Sample Time 11:08

Data Type CHK

Sample Value 0.092

Sample Time 11:09

Data Type BLK

Sample Value 0.000

Sample Time 11:10

Data Type SUBJ

Sample Value 0.000

Sample Time 11:11

Data Type BLK

Sample Value 0.000

Sample Time 11:12

Data Type SUBJ

Sample Value 0.000

Sample Time 11:13

Data Type BLK

Sample Value 0.000

Sample Time 11:14

Standard Type Dry Gas Std

Standard Value 0.092

Standard Lot Number AG227501-15

Standard Expiration Date 10/01/2014

Tank Pressure 678

Barometric Pressure 699 mmHg

Blow Sample Number 1 Blow Duration 3.37 sec

Blow Volume 1711 cc End-of-Blow Time 11:11

Blow Sample Number 2 Blow Duration 3.31 sec

Blow Volume 1734 cc End-of-Blow Time 11:13

Tamper Evident Stamp eb6f0c59

Test Status Code 0

Test Status Success